

Nucrel® 0407HS

Ethylene Methacrylic Acid

DuPont Packaging & Industrial Polymers

Message:

Nucrel® 0407HS is a copolymer of ethylene and methacrylic acid made with nominally 4 wt% methacrylic acid. It is available for use in conventional extrusion coating, coextrusion coating and extrusion laminating equipment designed to process polyethylene resins.

General Information	
Features	Good Stability
Uses	Adhesives
	Coating Applications
	Laminates
	Packaging
	Sealants
Agency Ratings	FDA 21 CFR 177.1330(a)
Processing Method	Coextrusion
	Extrusion Coating
	Laminating

Physical	Nominal Value	Unit	Test Method
Specific Gravity	0.930	g/cm ³	ASTM D792, ISO 1183
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	7.5	g/10 min	ASTM D1238, ISO 1133
Methacrylic Acid Content	4.0	wt%	
Freezing Point			
--	85	°C	ISO 3146
--	85	°C	ASTM D3418
Thermal	Nominal Value	Unit	Test Method
Vicat Softening Temperature	90.0	°C	ASTM D1525, ISO 306
Peak Melting Temperature	110	°C	ASTM D3418, ISO 3146
Extrusion	Nominal Value	Unit	
Cylinder Zone 1 Temp.	185	°C	
Cylinder Zone 2 Temp.	235	°C	
Cylinder Zone 3 Temp.	285	°C	
Cylinder Zone 4 Temp.	310	°C	
Cylinder Zone 5 Temp.	310	°C	
Adapter Temperature	310	°C	
Melt Temperature	260 to 310	°C	
Die Temperature	310	°C	

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